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CLAIMS

- 5 1. A method for the reduction of liquefaction potential of foundation soils, comprising the steps of drilling holes (1) at a distance to each other, and injecting expansive resins filling the voids and compacting it, and characterized in that said expansive grout is performed at time intervals so that a strong and compact foundation soil with reduced liquefaction potential is obtained.
- 10 2. The method of claim 1 wherein the holes are drilled vertically or at any angle with the vertical.
- 15 3. The method of claim 1 wherein the liquefaction potential is reduced at any depth.
- 20 4. The method of claims 1 to 3 wherein, the method is controlled by laser equipments or other sensitive measurement gages.
- 25 5. The method of claim 1 wherein the holes are drilled at any distance from each other.
6. The method of claims 1 to 5 wherein holes are drilled at the same or different diameters.
7. The method of claims 1 to 6 wherein holes are protected .
8. The method of claims 1 to 7 wherein the expansive grout is applied uniformly.

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9. The method of claims 1 to 8 wherein liquefaction reduction is made at the same or at different degrees at different depths.

5 10. The method of any of the claims above, wherein the liquefaction reduction is made with no limitation of the depth below ground level.

10 11. The method of claims 1 to 10, wherein liquefaction reduction is made in any type of dry or wet clay silt sand soil or rock, or water content without limitation.

15 12. The method of claims 1 to 11, wherein the ground may be disturbed, remoulded by earthquake or any kind of vibration for any kind of soil or rock.